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# United States Patent [19]

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- [54] **ELECTRONIC MUSICAL INSTRUMENT WITH MULTI-MODEL PERFORMANCE MANIPULATOR**
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- [52] U.S. Cl. .... **84/658; 84/661; 84/471 R; 84/483.1; 84/DIG. 9; 84/DIG. 10**
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## [57] ABSTRACT

An electronic musical instrument capable of achieving a variety of performance mode. A manipulation region to be played with a hand manipulator is divided into regions of different performance modes. Tone signal parameters are generated differently depending on the selection of the performance region. Tone generator generates musical tone signals based on the tone signal parameters. The tone signal parameters are determined based on coordinate information on the manipulation region designated by the hand manipulator and pressure information applied on the coordinate position by the hand manipulator. The tone signal parameters comprise velocity information, pressure information and tone pitch information.

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9 Claims, 16 Drawing Sheets

